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TI - METHOD FOR ENHANCING RELIABILITY OF ELECTRON BEAM IRRADIATION

AB - PURPOSE: To uniformize packing density by measuring and sorting the density and distribution per unit area of an object prior to irradiation of the object with an electron beam and getting rid of the deficiency and excess of exposure.

- CONSTITUTION: When an object A to be irradiated passes through a soft X-ray generation equipment (generating part) 1, the signal of a penetrating X-ray dose from a detection part 2 is transmitted to a signal processing part 3, converted into a digital signal matching the surface density of the object A to be irradiated, and transferred to an arithmetic part 4. A minimum penetrating X-ray dose for a specified electronic energy lower than a data value measured in advance is considered inappropriate, and the arithmetic part 4 instructs a fractionation equipment 5 to remove the object A to be irradiated from a transfer line for fractionation processing. Further, the arithmetic part 4 judges the distribution of the digital signal, calculates an accelerating voltage value matching it, and gives instructions to an electron beam generating part 7, thereby avoiding excessive irradiation. Thus, the packing density can be uniformized.

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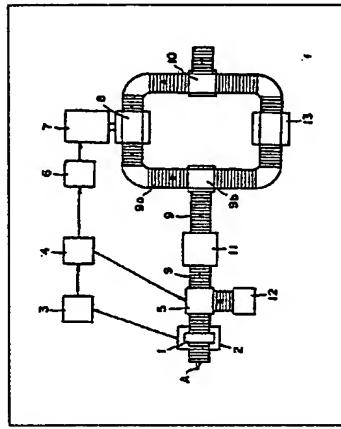
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